

*English
abstract*

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TITLE: Light-sensitive recording element with mask
formed directly on top coat - comprising tear-resistant
polymer, used as resist or esp. in computer to plate
process

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INVENTOR-INFORMATION:

NAME
BAUER, GERHARD DR

COUNTRY
DE

ASSIGNEE-INFORMATION:

NAME
BASF AG

COUNTRY
DE

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ABSTRACT:

Recording element, which is sensitive to UV and/or visible actinic light, has (A) a dimensionally stable base, (B) a negative- or positive-working light-sensitive recording layer (B1) or (B2), (C) an optically transparent top coat contg. polymer(s) forming a tear-resistant film and (D) a mask formed directly on the light-sensitive (sic) top coat (C). The novelty is that (D) is a relief pattern of coated areas (D1) and uncoated areas (D2), in which (D1) are opaque to the actinic light used. Pref. (D1) consists of liq. droplets or solid particles transferred to the surface of (C), pref. of electrophotographic toner, ink applied by ink-jet printing or pigment or pigment/binder

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applied by thermal transfer printing. (B) is a negative-working photocurable or photopolymerisable layer (B1) or a positive-working photodegradable layer (B2). (C) consists of (co)polyamide, polyurethane, poly(meth)acrylate, cyclo-rubber with a high deg. of cyclisation, ethylene-propylene copolymer (co)PVC, EVA, partly or almost completely hydrolysed poly(vinyl alcohol alkanecarboxylate ester), partly or almost complete hydrolysed vinyl alcohol alkanecarboxylate ester/alkylene oxide graft copolymer, gelatin, cellulose ether or ester, polyvinylpyrrolidone, vinyl-aromatic/alkenedicarboxylic anhydride copolymer, poly(meth)acrylic acid (meth)acrylic acid/(meth)acrylate copolymer and/or polyalkylene oxide. The element is packed in opaque, undeformable package for sale. USE/ADVANTAGE - The element is useful in the prodn. of printing plates and photoresists, esp. seamless gravure, offset, letterpress and flexographic printing cylinders for continuous printing. The element can be used in the computer to plate technique and the process is rapid and reli